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# FEDERAL-STATE COOPERATIVE SNOW SURVEYS and IRRIGATION WATER FORECASTS

for  
**COLORADO RIVER DRAINAGE BASIN**

April 1, 1949



by  
Division of Irrigation, Soil Conservation Service  
United States Department of Agriculture  
and  
Colorado Agricultural Experiment Station

Data included in this report were obtained by the agencies named above in cooperation with the U. S. Forest Service, National Park Service, State Foresters of Colorado, Wyoming and New Mexico and other Federal, State and local organizations.



## WATER SUPPLY OUTLOOK

### Colorado River Drainage

April 1, 1949

Snow accumulation on the headwaters of the Colorado River in Wyoming, Colorado and New Mexico has been somewhat above normal to April 1. Snowfall has been heavier in Southwestern Colorado and on the Green River tributaries in Northwestern Colorado. Relatively less snow cover exists on the headwaters of the Upper Colorado River and its tributaries. Soil moisture conditions are described as good to excellent throughout the basin.

The snow is gone from low snow courses in Arizona but is still present at high elevations. The water supply outlook has improved over the past few years but stream flow has not been as high as expected from the snow-melt.

### COLORADO RIVER AND ITS TRIBUTARIES IN COLORADO

Colorado River (above Grand Junction): The snow cover on the Colorado River above Grand Junction is 18 percent above normal and slightly over a year ago. The distribution of snow on the watershed indicates that normal snow cover exists on the Blue, Frazer and Eagle Rivers and somewhat above normal on other tributaries in Colorado. The April-September flow of the Colorado River at Glenwood Springs is expected to be 1,600,000 acre-feet and for the Roaring Fork 950,000. March precipitation along this stream was generally deficient but soil moisture conditions are good.

Gunnison River: On the Gunnison River drainage the snow cover is slightly heavier than on the Colorado River. Seasonal precipitation in valley areas has been well above normal and soil moisture conditions are excellent. Snow cover is relatively heavier on the southern tributaries. The flow of the Uncompahgre is expected to be over fifty percent above normal. For the Gunnison River at Grand Junction the April-September, 1949 flow is expected to be 1,800,000 acre-feet. Storage at Taylor Park reservoir is now 65,000 acre-feet as compared to 87,000 on April 1, 1948.

Yampa and White Rivers: On both of these streams the April 1 snow accumulation is very high, 35 percent above normal. The summer flow of these streams will be as great as any in the past 12 years.

The flow of the Yampa River will probably exceed any recent summer flow and if temperatures are above normal at melting time unusually high peak flow may be expected and some damage will result. Similar snow conditions exist on the headwaters of the Little Snake River as on the Yampa. Seasonal precipitation in valley areas has been much above normal and soil moisture conditions are reported as good.

San Juan and Animas Rivers: Snow-water contents measured on the headwaters of these streams was over 50 percent above normal April 1. Total summer runoff will be high but unless April snow accumulation is above normal the peak flow will not exceed that for the year 1941. Estimated April-September flows for the San Juan at Rosa, New Mexico is 950,000 acre-feet, and for the Animas at Durango 750,000; Vallecito reservoir is down to 33,000 acre-feet from 57,000 on February 1. The flow of the Los Pinos below the reservoir for the summer period should be about 350,000 acre-feet. Soil moisture conditions throughout southwestern Colorado are described as excellent.

Dolores River: On the headwaters of the Dolores and San Miguel Rivers the snow-water contents are also unusually high. For the Dolores River the total April to September flow is expected to exceed any year since 1936 when snow surveys were started. Based on current data there is a four out of five chance that the peak flow of the Dolores at Dolores will exceed the year 1941.

#### GREEN RIVER IN WYOMING

Snow cover at high elevations on the headwaters of the Green River in Wyoming was about 13 percent above normal as of April 1. The range area has been snow-covered throughout the winter. Water from the current snow melt is being absorbed by the ground. Stream flow is about normal. The April-September flow of the Green River at Linwood, Utah is expected to be about 1,300,000 acre-feet.

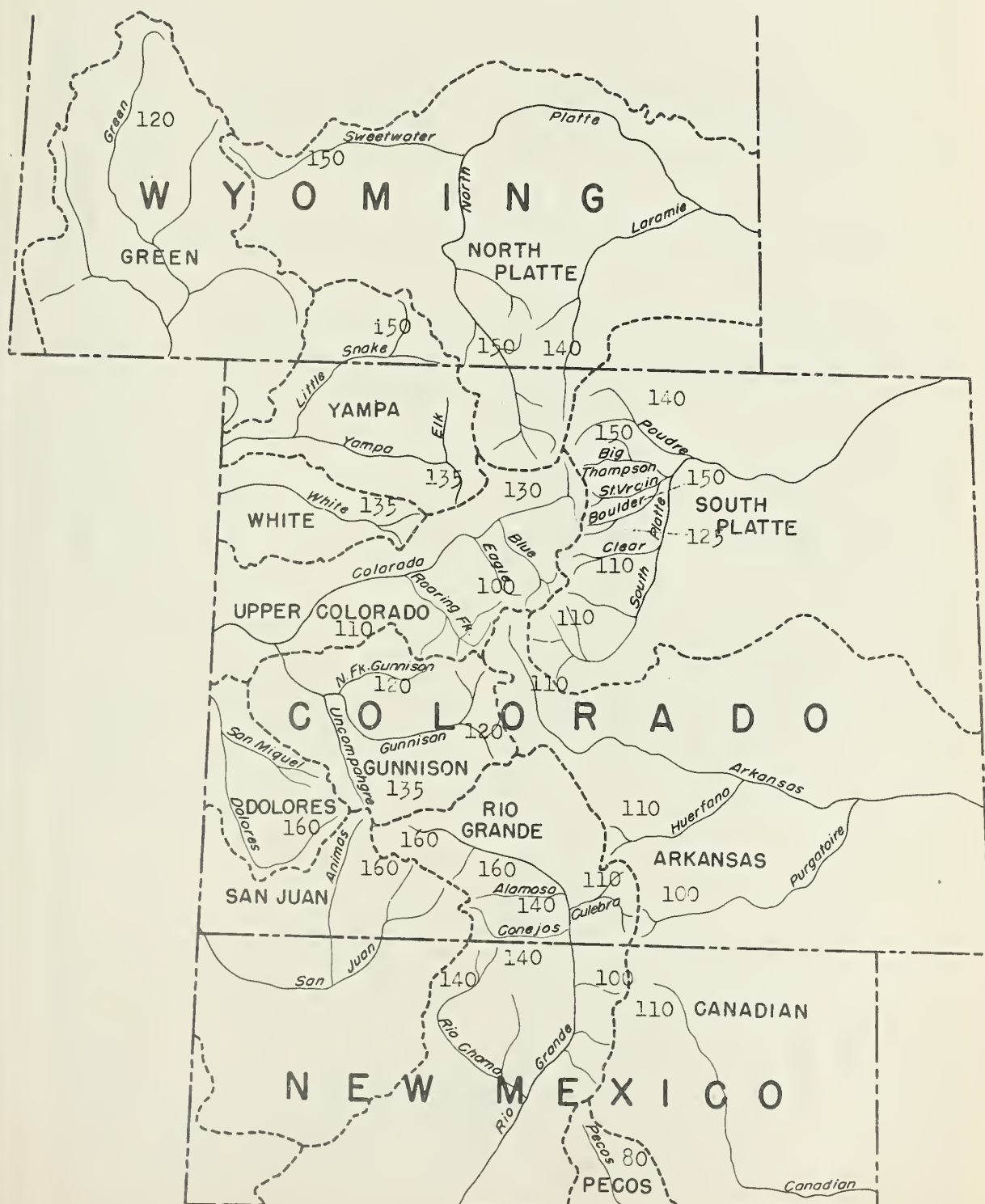
#### COLORADO RIVER & TRIBUTARIES IN ARIZONA

The water supply outlook for Arizona is much improved over the past three seasons but the runoff from heavy winter snows has not been as much as expected. February and March precipitation in the valley areas has been light and the snow is gone from all but higher elevation courses. Top layers of soil in the valley areas are reported as dry. Storage in the four major reservoirs on the Salt River is now 544,000 acre-feet as compared to 270,000 a year ago. Storage in Bartlett Reservoir on the Verde is 118,000 which is much over normal. A year ago the storage was 20,000. In San Carlos reservoir on March 15 there was stored 242,000 acre-feet as compared to 13,000 on April 1, 1948.



WATER CONTENT OF SNOW ON THE WATERSHEDS OF  
PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS  
BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal  
April 1, 1949







COLORADO RIVER DRAINAGE BASIN  
STREAM FLOW FORECASTS, April 1, 1949

Basin and Stream	April-Sept., Incl., Streamflow, Acre Feet				10-year Avg. 1938-1947
	Forecast 1949	1948	Measured Runoff 1947	1946	
<u>GREEN</u>					
Green at Linwood, Utah	1,300,000	1,077,000	1,817,000	1,181,000	1,160,000
Little Snake at Lilly	450,000		341,560	272,000	333,000
Elk at Clark	300,000		234,000	184,000	206,000
Yampa at Steamboat Springs	350,000		333,000	225,000	263,000
White at Meeker	400,000	331,000	404,000	248,000	316,000
<u>COLORADO</u>					
Colorado at Glenwood Springs	1,600,000	1,477,000	1,880,000	1,148,000	1,473,000
Roaring Fork at Glenwood Springs	950,000	887,000	1,008,000	635,000	754,000
Gunnison at Grand Junction	1,800,000	1,966,000	1,509,000	906,000	1,501,000
Uncompahgre at Colona	250,000		178,000	110,000	171,000
San Juan at Rosa, N.M.	950,000	797,000	440,000	280,000	700,000
Los Pinos Near Bayfield	350,000	321,000	185,000	185,000	224,000
Animas at Durango	750,000	566,000	540,000	340,000	516,000
Dolores at Dolores	500,000	349,750	288,000	194,000	336,000
San Miguel at Naturita	350,000	280,130	180,000	133,000	275,000
Colorado near Grand Canyon, Ariz.	12,000,000	10,287,000	10,986,000	6,505,000	9,768,000

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# SNOW SURVEYS AND IRRIGATION WATER FORECASTS

## COLORADO RIVER BASIN

### STATUS OF RESERVOIR STORAGE, APRIL 1, 1949

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (THOUS. A.F.)	THOUSANDS ACRE FEET IN STORAGE ABOUT APRIL 1				
			1949	1948	1947	1946	10-year Av. 1938-1947*
COLORADO DRAINAGE							
Taylor River	Taylor Park	106.2	65.0	87.4	70.1	85.4	62.5
Los Pinos River	Vallecito	126.3	33.5	57.1	60.1	40.8	37.8
Groundhog Creek	Groundhog	21.7	6.0	11.0	8.0	8.5	11.2
Blue River	Green Mountain	146.9		56.0	72.4	64.1	51.8
Colorado River	Lake Mead	27935.0	17735.0	18620.0	16383.0	17776.0	18646.0
Colorado River	Lake Havasu	688.0	605.3	607.5	649.0	629.0	551.3
SALT AND GILA DRAINAGE							
Salt River	Roosevelt	1420.0	331.3	54.6	80.6	362.1	630.9
"	Horse Mesa	245.0	140.7	157.6	234.1	224.5	202.9
"	Mormon Flat	58.0	35.5	23.0	40.6	38.7	43.7
"	Stewart Mt.	70.0	37.2	36.6	52.2	19.4	42.7
Verde River	Bartlett	179.5	117.6	19.6	10.3	11.8	70.3
Verde River	Horseshoe	67.0	62.7				
Aqua Fria River	Carl Pleasant	173.0		--	14.6	3.6	33.7
Gila River	San Carlos	1200.0		12.6	13.1	26.0	263.6

\*Some for shorter periods

\*Some for shorter periods

SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for

COLORADO RIVER BASIN

April 1, 1949

SUMMARY OF APRIL 1 SNOW SURVEYS AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

WATERSHEDS	Snow Depth		Water Content		Number Courses in Average	Snow Density		1949 Water Content in percent of	
	Thirteen year Avg.*	1948	Thirteen year Avg.*	1949		Thirteen 1948	1949	Thirteen Year Avg.*	1948
	In.	In.	In.	In.		Percent	Percent	Percent	Percent
COLORADO RIVER									
Green River	45.4	47.7	57.3	19.5	19	31	28	137	148
Colorado Rivers**	47.4	55.0	55.5	16.8	24	30	29	118	104
Roaring Fork	40.9	50.9	46.1	14.1	3	31	27	111	101
Yampa River	61.0	71.4	71.3	27.6	5	33	31	135	126
White River	50.6	58.3	61.7	23.0	2	34	33	135	120
Gunnison River	51.1	59.0	61.4	19.6	10	32	31	120	108
Dolores River	36.1	44.6	46.3	18.2	3	31	32	166	127
San Juan River	40.7	53.9	60.3	22.2	7	34	35	158	117
Animas River	32.7	47.0	46.6	15.6	3	31	31	156	108
Gila River	1.5	7.2	4.2	1.6	3	33	32	320	70
Salt River	1.0	4.9	1.9	0.9	5	40	35	225	53
Verde River***	3.0	5.6	13.0	4.6	6	33	36	460	230
Little Colo. River	0.8	4.4	0.8	0.4	3	38	32	133	29
Williams River***	0.0	0.0	0.0	0.2	2	--	--	--	--

\*\*Above Grand Junction. \*Some for shorter periods. \*\*\*Three Year Record.

P R E C I P I T A T I O N   D A T A

WATERSHED	STATE	Precipitation*		Departure from Normal		Precipitation*		Departure from Normal	
		October 1 to March 31	Inches	October 1 to March 31	Inches	March	Inches	March	Inches
Colorado	Colorado		10.80		1.84		1.84		-0.04
Green	Wyoming		5.55		4.57		0.76		-0.10
San Juan	New Mexico		6.10		4.57		0.73		-0.30
Colorado	Arizona		8.93		4.55		0.71		-0.79
Gila	Arizona		7.13		4.77		0.25		-0.73



## COLORADO RIVER DRAINAGE SNOW SURVEYS

April 1, 1949

Drainage Basin and Snow Course		Location				Snow Cover Measurements						
		No. and State	Sec.	Twp.	Range	Elev.	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Yrs. of Rec.	Past Record Av. Water Content (Inches)	
COLORADO RIVER (above Grand Junction)												
Cameron Pass*	1	Colo.	2	6N	76W	10300	4/5	76.3	27.8	13	23.2	20.8
Park View*	7	"	24	5N	78W	9200	4/1	47.2	14.6	13	21.1	10.0
Phantom Valley	12	"	7	5N	75W	9300	3/31	45.4	13.1	13	10.8	9.6
Hoosier Pass	14	"	13	8S	78W	11400	3/31	49.1	12.8	13	12.4	12.1
Berthoud Pass	16	"	35	2S	75W	9700	3/30	61.0	17.0	13	17.8	15.8
Tennessee Pass	19	"	21	8S	80W	10200	3/30	40.0	7.3	13	10.1	9.1
Ind. Pass Tunnel	33	"	30	11S	82W	10200	4/3	59.6	17.7	13	25.5	18.4
N. Lost Trail Cr.	34	"	20	11S	87W	9200	4/1	51.2	18.2	13	13.4	14.1
E. Fork Camp Cr.	37	"	16	3S	77W	9000	3/30	43.4	9.7	13	11.3	9.8
Fiddler Gulch	44	"	1	8S	80W	11000	4/1	59.0	17.3	13	18.0	14.7
Nest	45	"	1	9S	83W	8700	4/1	27.5	6.4	13	6.4	5.7
Mesa Lakes	56	"	35	11S	96W	10000	3/30	63.1	18.5	12	17.2	18.1
Lulu	59	"	25	6N	76W	10200	3/27	62.4	19.1	11	17.2	16.6
Willow Creek P.	62	"	1	4N	78W	9500	4/1	58.4	19.0	11	14.4	12.3
N. Inlet Grand L.	64	"	26	4N	75W	9000	3/29	42.6	12.6	11	13.6	9.0
Lake Irene	65	"	8	5N	75W	10600	3/28	83.1	29.9	11	23.2	20.2
Thunderbolt Peak	66	"	22	2N	74W	9500	4/1	47.0	18.6	11	19.3	16.4
Arrow	69	"	34	1S	75W	9900	3/31	47.1	12.0	11	11.8	9.5
Lapland	70	"	16	2S	76W	9300	4/1	44.9	13.1	11	12.1	10.7
Fremont Pass #2	79	"	2	8S	79W	11400	3/29	54.8	15.6	13	17.3	15.9
Trickle Divide	85	"	23	11S	94W	10000	4/2	100.5	33.3	9	30.4	27.7
Lynx Pass	91	"	27	2N	83W	9100	3/30	49.5	13.6	13	16.7	12.8
Shrine Pass	96	"	15	6S	79W	10500	3/29	59.8	17.5	7	18.9	17.2
Grizzly Peak	97	"	2	5S	76W	11250	3/30	58.3	18.7	7	21.3	17.2
Ivanhoe	100	"	12	9S	82W	10400	3/31	63.0	19.7	11.0	18.5	
Glen-Mar Ranch	102	"	31	12S	77W	8850	3/30	41.6	8.8	2	10.4	9.2
Monarch Lake	106	"	30	2N	94W	8500	4/1	38.3	11.2	1	---	13.6
Granby	113	"	11	2N	77W	8700	3/25	34.2	8.5	-	---	
Grand Lake	127	"	36	4N	75W	8600	3/31	43.4	11.4	-	---	
Average for Drainage								55.5	16.8		16.4	14.3

\*On adjacent drainage

## COLORADO RIVER SNOW SURVEYS, April 1, 1949

Drainage Basin and Snow Course	Location			Date of Survey	Snow Depth (Inches)	Water Content (Inches)			Snow Cover Measurements	
	No. and State	Sec.	Twp.	Range	Elev.	1949	1948	1947	Yrs. of Rec.	Past Record Av. Water Content (Inches)
YAMPA RIVER										
Dry Lake	6 Colo.	26	7N	84W	8200	3/31	63.3	24.2	13	20.0
Columbine Lodge	8 "	21	5N	82W	9300	3/31	75.9	28.9	13	22.0
Elk River	9 "	6	10N	85W	8700	3/30	62.9	23.4	13	16.6
Lynx Pass	91 "	27	2N	83W	9100	3/30	49.5	13.6	13	12.8
Old Battle	9 Wyo.	29	14N	85W	9800	3/31	104.7	47.7	13	30.7
			Average for drainage				<u>71.3</u>	<u>27.6</u>		<u>20.4</u>
WHITE RIVER										
Burro Mountain	35 Colo.	15	2S	91W	9000	3/31	64.8	23.4	13	18.7
Rio Blanco	36 "	28	1N	88W	8500	3/31	58.6	22.5	13	15.3
			Average for drainage				<u>61.7</u>	<u>23.0</u>		<u>17.0</u>
ROARING FORK										
Ind. Pass Tunnel	33 Colo.	30	11S	82W	10200	4/3	59.6	17.7	13	18.4
N. Lost Trail Cr.	34 "	20	11S	87W	9200	4/1	51.2	18.2	13	14.1
Nast	45 "	1	9S	83W	8700	4/1	27.5	6.4	13	5.7
Ivanhoe	100 "	12	9S	82W	10400	3/31	63.0	19.7		
			Average for drainage				<u>46.1</u>	<u>14.1</u>		<u>12.7</u>
GUNNISON RIVER										
Crested Butte	18 Colo.	22	13S	86W	9000	4/1	49.0	15.1	13	14.7
Marshall Creek	42 "	24	48N	6E	10800	4/3	48.7	14.8	13	13.1
Poncha Creek*	43 "	19	48N	7E	10500		54.2	13.7	13	11.1
Park Cone	46 "	19	14S	82W	9700	4/1	46.8	15.6	12	9.4
Alexander Lake	53 "	2	12S	25W	10000	4/1	80.1	26.1	12	23.9
Snowshoe Mesa	55 "	14	13S	89W	7500	3/31	20.1	8.2	12	7.9
Ironton Park	58 "	29	43N	7W	9800	3/29	59.2	19.3	12	14.3
Trickle Divide	85 "	23	11S	94W	10000	4/2	100.5	33.3	9	27.7
Park Reservoir	87 "	34	11S	94W	9500	4/2	88.8	30.1	9	25.3
Porphyry Creek	89 "	19	49N	6E	10800	3/30	66.8	20.2	9	16.5
Kannah Creek	101 "	5	12S	95W	10700	3/31	79.8	26.1	2	--
Lake City	104 "	13	43N	4W	10300	4/1	39.6	10.3	1	--
Spring Cr. Pass	123 "	2	42N	3W	10900	4/5	55.3	18.8		
Cochetopa Pass	126 "	12	45N	3E	10000	3/31	33.3	8.3		
			Average for drainage				<u>61.4</u>	<u>19.6</u>		<u>16.4</u>
							<u>18.2</u>	<u>16.6</u>		

\*On adjacent drainage



## COLORADO RIVER SNOW SURVEYS, APRIL 1, 1949

Drainage Basin and Snow Course	Location				Elev.	Date of Survey	Snow Depth (Inches)	Snow Course Measurements				
	No. and State	Sec.	Twp.	Range				Water Content (Inches)			Yrs. of Record	Past Record Av. Water Content (Inches)
								1949	1948	1947		
COLORADO RIVER												
SAN JUAN RIVER								In.	In.	In.		
Wolf Creek Pass*	26 Colo.	4	37N	2E	10000	3/31	106.5	42.3	39.3	20.7	13	
Upper San Juan	29 "	10	37N	1E	10000	3/31	124.5	47.2	43.7	21.3	13	
Silverton Sub.S.	30 "	10	41N	7W	9400	4/1	24.7	6.6	8.4	5.4	13	
Cascade	31 "	12	39N	9W	8850	3/31	55.9	20.8	17.8	8.2	13	
Granite Peaks	93 "	24	37N	6W	7950	3/31	31.3	10.3	6.0	0.0	8	
Chama Divide	17N.Mex.		36.9N	106.7W	7750	4/3	32.0	13.2	5.2	0.0	9	
Chamita*	18 "		36.9N	106.7W	8500	4/3	47.1	15.1	12.6	4.2	7	
			Average for Drainage				60.3	22.2	19.0	8.5		
ANIMAS RIVER												
Silverton Sub.S.	30 Colo.	10	41N	7W	9400	4/1	24.7	6.6	8.4	5.4	13	
Cascade	31 "	12	39N	9N	8850	3/31	55.9	20.8	17.8	8.2	13	
Ironton Park*	58 "	29	43N	7W	8700	3/29	59.2	19.3	16.9	14.7	12	
			Average for Drainage				46.6	15.6	14.4	9.4		
DOLORES RIVER												
Rico	23 Colo.	11	39N	11W	8700	4/4	33.2	13.5	10.4	3.6	13	
Telluride	24 "	6	42N	8W	8600	3/31	34.0	10.7	9.8	4.9	13	
Lizard Head	25 "	24	41N	10W	10300	4/4	71.7	30.4	22.6	14.6	13	
Lone Cone	90 "	23	41N	13W	8900	4/1	15.2	16.9	12.4	6.1	8	
Trout Lake	114 "	8	41N	9W	9700	3/31	63.5	17.2	--	--		
			Average for Drainage				46.3	18.2	14.3	7.7		
GILA RIVER												
Frisco Divide	11 N.Mex.	21	6S	20W	8000				3.9	0.0	11	
State Line	14 "	6	6	21W	8000				1.8	0.0	11	
Taylor Creek	22 "	20	10S	10W	7850	4/1	3.0	0.5	0.0	0.0	6	
Inman	23 "	6	11S	10W	7800	4/1	3.0	0.5	0.0	0.0	3	
Nutriosio	3 Ariz	23	6N	30E	8500	3/31	2.5	1.1	2.9	0.0	11	
Beaver Head	4 "	13	4N	30E	8000				2.9	0.0	10	
Coronado Trail	5 "	26	5N	30E	8000	3/31	7.2	3.2	4.1	0.0	11	
Rose Canyon	8 "	15	12S	16E	7300	4/1	9.3	1.0	0.0	--	1	
Bear Wallow	9 "	6	12S	16E	8100	4/1	12.6	2.7	0.0	--	1	
			Average for Drainage				4.2	1.6	2.3	0.0		

\*On adjacent drainage



COLORADO RIVER SNOW SURVEYS, APRIL 1, 1949

Drainage Basin and Snow Course	Location				Date of Survey	Snow Depth (Inches)	Snow Course Measurements				
	No. and State	Sec.	Twp.	Range			Elev.	Water Content (Inches)			
								1949	1948	1947	
COLORADO RIVER											
SALT RIVER	6 Ariz.	14	8N	23E	7200	4/1	0.0	1.3	0.0	10	0.3
McNary	7 "	2	9N	21E	6000	4/1	0.0	0.0	0.0	10	0.0
Forestdale	9 "	28	8N	23E	7000	4/1	0.0	0.0	0.0	7	0.0
Milk Ranch	3 "	23	6N	30E	8500	3/31	2.5	2.9	0.0	10	0.5
Nutriosos*	5 "	26	5N	30E	8000	3/31	7.2	4.1	0.0	11	1.0
Coronado Trail*			Average for drainage				1.9	1.7	0.0		0.4
VERDE RIVER											
Iron Springs*	11 Ariz.	22	14N	3W	6200	3/26	0.0	0.0	0.0	3	0.0
Camp Wood	12 "	3	16N	6W	5700	4/1	6.0	0.0	0.0	2	0.0
Mingus Mountain	"	3	15N	2E	7100	4/1	0.0	0.0	0.0	2	0.0
Mormon Lake*	"	13	18N	8E	7350	3/31	35.9	10.0	0.0	2	5.0
Fort Valley*	"	22	22N	6E	7350	4/1	16.0	0.1	0.0	2	0.1
Chalender*	"	27	22N	3E	7100	4/1	20.0	1.7	0.0	2	0.9
			Average for Drainage				13.0	2.0	0.0		1.0
LITTLE COLORADO RIVER											
Forest Dale*	7 Ariz.	2	9N	21E	6000	4/1	0.0	0.0	0.0	10	0.0
McNary	6 "	14	8N	23E	7200	4/1	0.0	1.3	0.0	10	0.3
Nutriosos*	3 "	23	6N	30E	8500	3/31	2.5	2.9	0.0	11	0.5
Mormon Lake	"	13	18N	8E	7350	3/31	35.9	10.0	0.0	2	5.0
Fort Valley	"	22	22N	6E	7350	4/1	16.0	0.1	0.0	2	0.1
Bright Angel	Ariz.	34	33N	3E	8400			10.1	--	1	--
Grand Canyon	Ariz.	21	30N	4E	7500			1.5	--	1	--
			Average for Drainage				0.8	1.4	0.0		0.3
WILLIAMS RIVER											
Iron Springs	11 Ariz.	22	14N	3W	6200	3/26	0.0	0.0	0.0	3	0.0
Camp Wood*	12 "	3	16N	6W	5700	4/1	6.0	0.0	0.0	2	0.0
Willow Ranch	"	16	21N	11W	5000			0.0	0.0	2	0.0
			Average for Drainage				3.0	0.2	0.0		0.0

\*On adjacent drainage

## COLORADO RIVER SNOW SURVEYS, April 1, 1942

Location				Snow Course Measurements							
Drainage Basin and Snow Course	No. and State	Sec.	Twp.	Range	Elev.	Date of Survey	Snow Depth (Inches)	Water Content (Inches)		Past Record	
								1949	1948	1947	Yrs. of Av. Water Content@ (Inches)
GREEN RIVER											
East Rim Divide	44 Wyo.	32	37N	111W	7950	3/31	42.0	12.5	7.7	9.7	13
Dutch Joe	23 "	33	31N	104W	8700	--	--	--	--	9.0	--
Mulligan Park	24 "	17	35W	108W	8900	4/1	40.5	11.1	7.0	13.2	13
Kendall R.S.	25 "	23	38N	110W	7900	4/1	49.4	15.0	6.3	11.9	12
Loomis Park	26 "	14	37N	111W	8500	4/1	56.3	14.6	15.3	16.7	13
Snyder Basin R.S.	27 "	15	29N	114W	8040	3/31	49.2	16.3	12.8	11.6	12
Piney-LaBarge	28 "	19	29N	114W	8820	3/31	57.5	20.7	17.1	17.0	12
Daniels-Stwbrry	23 Utah	17	2S	12W	8000	3/21	55.3	22.4	14.3	12.5	13
Lost Lake	28 "	4	2S	9E	9900	3/29	81.9	29.5	19.7	--	12
East Portal	33 "	36	7W	6E	7600	3/30	50.3	17.4	9.8	9.0	13
E. Port. Strawberry D.	33A "	34	7S	6E	8000	3/30	74.8	26.5	17.2	18.2	13
Hewinta R.S.	34 "	33	3N	13E	9500				12.2	9.2	10
Hole-In-Rock	35 "	13	2N	15E	9150	3/23	29.9	8.9	8.1	6.4	12
Lake Fork Mtn.	36 "	2	2N	5W	10500	3/22	49.5	15.6	10.2	12.6	13
Paradise Park	37 "	7	3N	1E	10500	3/23	58.7	14.9	14.4	17.7	12
Mosby Mtn. No. 2	38 "	5	2N	1E	9500				11.8	15.6	12
King's Cabin	39 "	22	1S	21E	8800	3/24	56.0	16.2	13.0	11.1	13
Indian Canyon	40 "	2	11S	10E	9100	3/27	66.2	31.2	10.1	12.6	13
Gooseberry Res.	41 "	25	11S	5E	8700	3/31	67.6	25.1	17.3	16.2	13
Wammoth R.S.	42 "	13	13S	5E	8800	3/31	69.5	26.2	17.6	15.4	13
Staley Ranch	42A "	32	12S	7E	7600				7.0		10
Dry Valley Divide	42B "	20	12S	8E	7800				11.3		11
Clear Creek	42C "	28	13S	7E	8150				7.0		10
Hntngtn-Hrshoe	43 "	12	14S	5E	9800	3/31	73.4	27.3	23.0	19.3	13
Widtsae EscInte	53 "	22	34S	1W	9500	3/30	61.2	19.6	10.8	8.0	12
			Average for drainage				57.3	19.5	13.2	13.3	

@Average for period of record

## COLORADO RIVER SNOW SURVEYS, April 1, 1949

Drainage Basin and Snow Course	Location		Snow Course Measurements									
	No. and State	Sec.	Type	Range	Elev.	Date of Survey	Snow Depth (Inches)	1949	1948	1947	Yrs. of Record	Past Record Av. Water Content@ (Inches)
COLORADO (Green to Virgin Rivers)												
48 Utah	25	17S	4E	10000	4/1	64.5	20.3	13.7	14.1	11	16.6	
51 " Fish Lake	35	26S	1E	8700	3/28	41.4	9.6	8.8	4.3	13	6.4	
54 " Bryce Canon NP.**	36	36S	4W	8000	3/30	38.0	11.5	7.2	0.0	11	5.2	
64 " La Sal Mountain	29	26S	24E	8500	4/1	58.4	18.3	12.7	7.2	13	9.6	
65 " Buckboard Flat	36	33S	22E	9000	3/28	72.5	26.3	16.7	10.8	12	15.0	
		Average for drainage				55.0	17.2	11.8	7.3		10.6	
VIRGIN RIVER												
56 Utah	22	38S	6W	7500	3/26	21.5	8.5	2.7	0.0	13	5.5	
57 "	24	38S	7W	7700	3/26	29.8	14.8	8.1	0.0	13	9.9	
58 "	11	38S	8W	8560	3/26	59.4	21.7	14.4	13.4	12	16.9	
59 "	13	37S	9W	10200	3/28	82.5	28.8	21.2	36.8	13	26.1	
61 Webster Flats RS*	20	37S	9W	9200	3/20	64.2	21.7	17.8	18.7	13	20.0	
		Average for drainage				51.5	19.1	12.8	13.8		15.7	
DUCHESNE RIVER												
23 Utah	7	2S	12W	8000	3/21	55.3	22.4	14.3	12.5	13	14.4	
28 " Daniels-Stwberry	4	2S	9E	9900	3/29	81.9	29.5	19.7	--	12	23.8	
33 " Lost Lake	36	7S	6E	7600	3/30	50.3	17.4	9.8	9.0	13	12.0	
33A " East Portal	34	7S	6E	8000	3/30	74.8	26.5	17.2	18.2	13	20.2	
36 " E. Port. Stwberry D.	2	2N	5W	10500	3/22	49.5	15.6	10.2	12.6	13	10.0	
40 " Lake Fork Mtn.	2	11S	10E	9100	3/27	66.2	31.2	10.1	12.6	13	9.4	
Indian Canyon		Average for drainage				63.0	23.8	13.5	13.0		14.8	

\*On adjacent drainage.

@Average for period of record.

